



Sub 17 1. (Amended) A method for transmitting digital information in the form of consecutive symbols over a transmission channel susceptible for intersymbol interference, comprising, in the following order, the successive steps of

- B1
- a) encoding the digital information to be transmitted with an outer code,
 - b) interleaving the encoded digital information to be transmitted,
 - c) encoding the interleaved encoded digital information with a recursive inner code and in conjunction therewith memoryless modulating the encoded interleaved encoded digital information onto a carrier, and
 - d) transmitting the carrier containing the memoryless modulated encoded interleaved encoded digital information.

B2 Sub 17 Cont 7. (Amended) A method for transferring digital information in the form of consecutive symbols from a transmitter over a transmission channel susceptible

for intersymbol interference to a receiver, comprising, in the following order, the successive steps of

- B2
Cont
- a) encoding the digital information to be transmitted with an outer code,
 - b) interleaving the encoded digital information to be transmitted,
 - c) encoding the interleaved encoded digital information with a recursive inner code and in conjunction therewith memoryless modulating the encoded interleaved encoded digital information onto a carrier, and
 - d) transmitting the carrier containing the memoryless modulated encoded interleaved encoded digital information,
 - e) receiving the transmitted carrier containing the memoryless modulated encoded interleaved encoded digital information,

- B2
Concl
- f) producing an estimate of the characteristics of the transmission channel,
 - g) converting the received carrier into consecutive symbols in a SISO equalisation process using the produced estimate of the characteristics of the transmission channel,
 - h) deinterleaving the consecutive symbols, and
 - i) decoding the deinterleaved consecutive symbols in a SISO decoding process.

Sub 17 10. (Amended) A transmitter for transmitting digital information in the form of consecutive symbols over a transmission channel, comprising

- B3
Cont
- a) an outer encoder for encoding the digital information to be transmitted with an outer code, said outer encoder having an input and an output,
 - b) an interleaver for interleaving the encoded digital information to be transmitted, said interleaver having an input and an output of